

Senior Leadership Briefing
Post-Tropical Cyclone Harvey and Hurricane Irma
Tuesday, September 5, 2017 (5:00 a.m. EDT)
Executive Summary
Updates in Blue

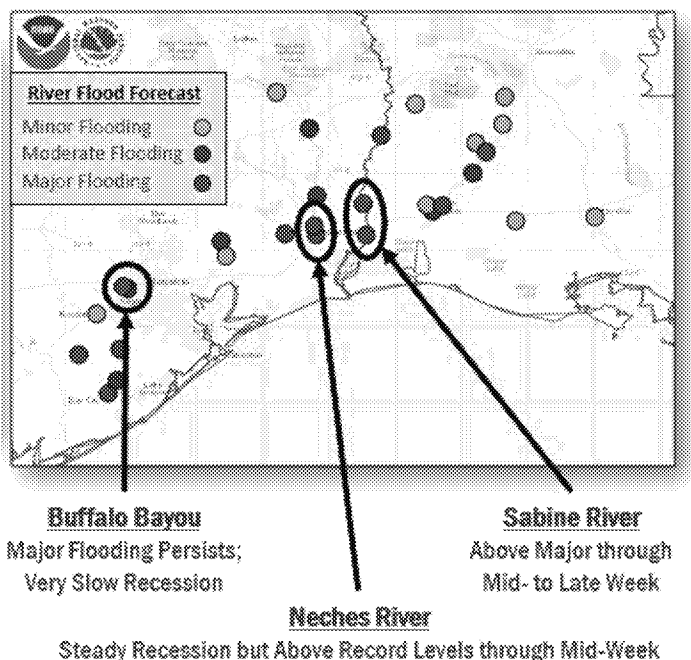
Overview:

FEMA is coordinating the interagency and multi-regional response to multiple events. FEMA is monitoring Post-Tropical Cyclone Harvey in the Northeast U.S. and Hurricane Irma in the Atlantic.

Current Situation:

Post Tropical Cyclone Harvey

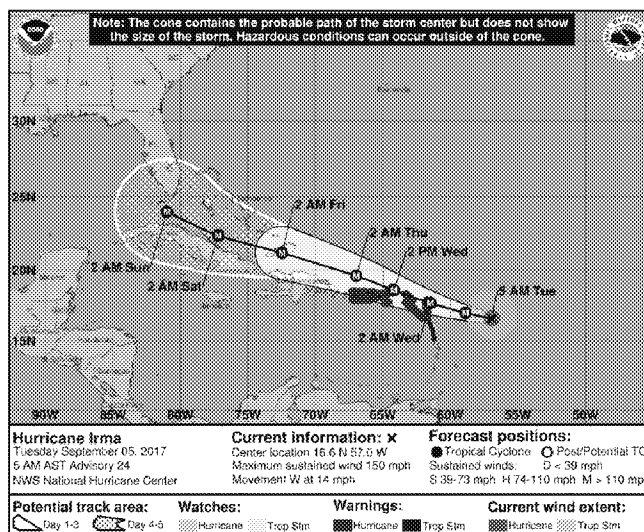
Coastal sections of TX and southwest LA will see a heat index in mid-upper 90s today. This may result in heat-related illnesses for citizens without access to air-conditioning or cooling areas. There is a chance of showers and thunderstorms today and into Wednesday, but widespread heavy rainfall unlikely. Dry and cooler conditions will develop on Thursday and into late next week with max temperatures reaching only in the 80s. Peak river crests are expected to occur this weekend with a slow recession thereafter for upper TX and southwest LA coasts, including Houston and Beaumont. *(NOAA Update, September 5, 2017, 5:00 a.m. EDT)*



Hurricane Irma

At 5:00 a.m. EDT, the eye of Major Hurricane Irma was located about 320 miles east of the Leeward Islands, moving west at 13 mph. This general motion is expected to continue today, followed by a turn toward the west-northwest tonight. The center of Irma will move near or over portions of the northern Leeward Islands Tuesday night and early Wednesday. Maximum sustained winds are 150 mph. Irma is a category 4 hurricane on the Saffir-Simpson Hurricane Wind Scale. Additional strengthening is forecast over the next 48 hours.

A hurricane Warning continues for the U.S. Virgin Islands and Puerto Rico. Hurricane conditions are expected across the U.S. Virgin Islands and Puerto Rico with strong tropical force winds likely. Rainfall accumulations between of 4 to 8 inches with isolated maximum amounts of 12 inches across the U.S. Virgin Islands and Puerto Rico. These rainfall amounts may cause life-threatening flash floods and mudslides. *(NOAA Update, September 5, 2017, 5:00 a.m. EDT)*



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Impact Summary:

- **Shelters:** 290 shelters open with a population of 34,375, including 284 shelters in TX with a population 33,079, and six in LA with a population of 1,296 *(ESF-6 Update, September 4, 2017, 1:29 p.m. EDT)*
- **Fatalities:** Media reporting at least 60 fatalities; state has not confirmed fatalities number *(Associated Press, September 4, 2017, 6:41 p.m. EDT)*
- **Critical Infrastructure:**
 - Airports: All airports open without restrictions except for the following:
 - Jack Brooks Regional (BPT) closed except for emergency and humanitarian aid; will remain closed until September 5
 - Texas Gulf Coast Regional (LBX) closed except for relief aircraft; restricted flights until September 8 due to flooding
 - Houston Executive (TME) open with restricted operations; two hour prior permission required due to military operations *(ESF-1 Update, September 4, 2017, 10:24 a.m. EDT)*
 - Ports: All ports in affected area open except for the following:
 - Intracoastal Waterway closed from Corpus Christi to Colorado Locks for aid to navigation repairs, target open date of September 5
 - Sector Houston/Galveston port assessments are: 81% of facilities are ready to resume normal operations; 14% are not ready to resume normal operations; 5% are partially available and continue to be assessed *(USCG Update, September 5, 2017, 2:00 a.m. EDT)*
 - Upper Houston Shipping Channel above Mitchells Point/Baytown Highlines closed to ship traffic but open to tug and barge tow traffic
 - Gulf Intracoastal Waterway closed eastbound to High Island
 - Port of Victoria open with restrictions *(USCG Update, September 4, 2017, 11:49 a.m. EDT)*
 - Roads:
 - Beaumont, TX area continues to experience widespread flooding impacting almost all major and minor routes in the area
 - Most major highways in the Houston area have reopened with the following exceptions (greatest impacts now in the areas southwest of Houston):
 - I-10 is closed in both directions east of Beaumont to the LA state line and between Mile Post (MP) 854 and MP 860 east of Houston due to flooding
 - Sam Houston Tollway (SL 8) is closed in both directions between IH-10 and Westheimer and Texas State Highway 6 is closed north and southbound between Clay Road and IH-10, both due to high water
 - TX-87 is closed due to wash-out (structural damage), and may take longer to re-open than other roads
 - Northbound US-96 is closed over Village Creek Relief in Lumberton, TX
 - Portions of I-210 in Calcasieu Parish (before the LA/TX state line) are closed *(ESF-1 Update, September 4, 2017, 10:39 a.m. EDT)*
 - Power Outages: 64,308 (-71) outages in TX (<1% of total state customers) *(ESF-12 Update, September 4, 2017, 4:23 p.m. EDT)*
 - Communications: 102,617 (-826) landline consumers out of service *(ESF-2 Update, September 4, 2017, 6:28 p.m. EDT)*
 - Oil and Natural Gas: Eight of ten previously closed refineries are in process of restarting, four are operating at reduced rates, no refineries have returned to normal rates *(ESF-12 Update, September 4, 2017, 4:28 p.m. EDT)*

- Water:
 - 1,656 (67%) of approximately 2,469 wastewater treatment plants are fully operational in the affected counties *(Office of Water Management Report, September 4, 2017, 11:07 p.m. EDT)*
 - Beaumont's wastewater treatment plant is fully operational and running; all units are being powered by generator and fully functional; city is focusing majority of its resources on drinking water issues; drinking water plant expected to take more than a week before being fully capable of meeting demand and lifting the boil notice *(Office of Water Management Report, September 4, 2017, 11:07 p.m. EDT)*

Major Flooding: Recession Timing

Basin	Gauge Location	Forecast to Recede Below Major Flooding
San Bernard River	Near Boling, TX	Wednesday (9/6)
Brazos River	Near Rosharon, TX	Thursday (9/7)
Buffalo Bayou	West Belt Drive (Houston, TX)	Weekend or Early Next Week *Based on Releases from Addicks and Barker
Neches River	Saltwater Barrier, TX Beaumont, TX	Friday (9/7) Thursday (9/6)
Sabine River	Near Bon Wier, TX Deweyville, TX Orange, TX	Today (9/5) Thursday (9/7) Weekend of Early Next Week
Calcasieu River	Near Old Town Bay, LA	Friday (9/7)

(NOAA Update, September 5, 2017, 2:00 a.m. EDT)

Declaration Activity:

- **Texas**
 - Major Disaster Declaration FEMA-4332-DR-TX effective August 25, 2017:
 - Amendment No. 5, effective September 4, adds seven additional counties (Austin, Bastrop, DeWitt, Gonzales, Karnes, Lavaca, and Lee) for Individual Assistance and assistance for debris removal and emergency protective measures (Categories A and B), including direct federal assistance, under the Public Assistance program, bringing the total number of counties under disaster declaration to 43 *(Amendment No. 5 to Disaster Declaration, September 4, 2017)*
 - Amendment No. 4, effective September 2, authorizes 90% federal cost share for debris removal, including direct Federal assistance, and a 100% federal cost share for emergency protective measures, including direct federal assistance, for 30 days from the start of the incident period, and then a 90% federal cost share thereafter *(Amendment No. 4 to Disaster Declaration, September 2, 2017)*
 - Federal Coordinating Officer (FCO) is Kevin L. Hannes *(Amendment No. 1 to Disaster Declaration, August 27, 2017)*
 - Federal Disaster Recovery Coordinator (FDRC) is Mike Byrne *(ESF-15 Update, September 1, 2017, 1:30 p.m. EDT)*
- **Louisiana**
 - Emergency Declaration FEMA-3382-EM-LA effective August 27, 2017:
 - The total number of parishes under disaster declaration is 12 *(Region VI Situational Awareness Section, September 1, 2017, 12:01 p.m. EDT)*
 - FCO is William J. Doran II

Federal Force Laydown:

Department / Agency	Personnel Deployed	Department / Agency	Personnel Deployed
FEMA – Deployed	2556 (-20)	Dept of Agriculture – USFA, other USDA	336
FEMA – Other Support	1,993	Dept of Commerce – NOAA	82
FEMA – Urban Search & Rescue	407 (-729)	Dept of Health and Human Services	1,141 (-172)
DHS – CBP	742	Dept of Energy	7 (+2)
DHS – TSA	775	Dept of Housing and Urban Development	1
DHS – USCG	1389 (+338)	Dept of the Interior – NPS, USGS	71 71 (-155)
DHS – NPPD	24	Dept of Justice – ATF, FBI, DEA*	1,798
DOD – Title 10	3143 (+125)	Department of State	5 (-1)
DOD – National Guard Bureau	18,612 (+2883)	Department of Transportation	23
Civil Air Patrol	245	Environmental Protection Agency	136 (-24)
US Army Corps of Engineers	247(+66)	Small Business Administration	102
		General Services Administration	45
Total			33,865

*Represents ESF-13 personnel and may have overlap with other Law Enforcement Agencies in this table.

(RSS Update, September 5, 2017, 5:00 a.m. EDT)

Responder Support Camps:

Location	Total Capacity	Start Date (Estimate)
USS Lexington (Corpus Christi)	350	9/5/2017
Walmart Box Store (Houston)	Up to 2000	9/5/2017
Cabaniss Field (Corpus Christi)	1000	9/5/2017
USTS General Rudder	50	9/6/2017
Ford Park (Beaumont)	Up to 1500	9/8/2017
USTS Kennedy	600	9/12/2017
USTS Empire State	650	9/16/2017

(RSS Update, September 5, 2017, 3:50 a.m. EDT)

FEMA Headquarters:

- National Response Coordination Center (NRCC) remains activated at Level I (24/7) (all Emergency Support Functions [ESFs] and Liaison Officers [LNOs]) (NRCC Planning Section Update, August 28, 2017, 4:00 p.m. EDT)
- Currently 34 states and 1 territory are supporting operations through Emergency Management Assistance Compact (EMAC) (EMAC SITREP # 18, September 5, 2017, 1:00 a.m. EDT)
- Fed by public input, “HarveyRelief” is providing real-time data and locations on vital disaster-related information:
 - Hurricane Harvey operations transitioning to recovery trending on social media: requests for large spaces for incoming convoys of supplies; volunteers to distribute supplies; lodging spaces for large volunteer coordination groups; large banners informing the public of supply stations; SUVs, pick-up trucks, etc., for the distribution of water and supplies (HarveyReliefWebsite, September 5, 2017, 12:15 a.m. EDT)
- Recovery**
 - One month of expedited Inaccessible Rental Assistance to eligible applicants approved for FEMA-DR-4233-Texas using depth grid data supported by geospatial imagery (FEMA Expedited Rental Assistance Payments memo, September 4, 2017, 2:44 p.m. EDT)
 - TX to use the new Public Assistance delivery model for DR-4332-TX
 - Total Individual Housing Program (IHP) registrations: 584,565 (+13,471) which is 54% of our total forecast and accounts for 22% of the total households in the disaster area (Open Disaster Report, September 4, 2017, 11:00 p.m. EDT)
 - Total IHP dollars approved: \$154,565,340 (+\$8,100,270) (Open Disaster Report, September 4, 2017, 11:00 p.m. EDT)
 - Housing Assistance: \$59,464,126 (+\$5,758,331) (Open Disaster Report, September 4, 2017, 11:00 p.m. EDT)
 - Other Needs Assistance: \$95,101,214 (+\$2,341,940) (Open Disaster Report, September 4, 2017, 11:00 p.m. EDT)

- 141,248 housing inspections issued; 31,930 complete (23% of issued) (*Open Disaster Report, September 4, 2017, 11:00 p.m. EDT*)
- 236,814 applicants eligible for Transitional Sheltering Assistance; 18,559 families signed in for a total of 53,139 people sheltered in hotels/motels (*Transitional Sheltering Assistance Summary, September 4, 2017, 3:05 p.m. EDT*)
- Surge staffing continues for FEMA Strategic Workforce Augmentation Team (SWAT) for taking calls from three NPSCs, FEMA pop-ups, Headquarters, all FEMA Regions, and from home; 2,534 staff, including SWAT, projected to be online with capacity for 38,595 calls (*Recovery Contact Center Surge Staffing Timeline, September 4, 2017, 11:00 a.m. EDT*)
- **Federal Insurance and Mitigation Administration**
 - Over 73,000 (+2,000) National Flood Insurance Program (NFIP) claims submitted (*FIMA Update, September 4, 2017, 12:55 p.m. EDT*)
 - NFIP partner insurance companies and direct servicing agent began issuing advance payments to assist policyholders begin their recovery; over \$13.3M (+\$7.1M) in advance payments has been issued to insured survivors as of September 4
 - NFIP published a bulletin establishing new advance payment guidance:
 - Policyholders may be eligible to receive up to \$5,000 in advance payments for building and contents damage prior to an adjuster's inspection
 - With photos and receipts validating out-of-pocket expenses, policyholders may receive an advance payment up to \$20,000 (increased from previous maximum amount of \$10,000) (*FIMA Update, September 5, 2017, 12:13 a.m. EDT*)

FEMA Region VI:

- Regional Response Coordination Center (RRCC) activated to Level I (24/7)
- Joint Field Office (JFO) in Austin, TX open
- **Texas**
 - State EOC at Full Activation
 - Houston, TX under curfew from 10:00 p.m. to 5:00 a.m. until further notice (*ESF-13 Update, September 1, 2017, 11:41 a.m. EDT*)
- **Louisiana:** State EOC at Level III Partial Activation (*FEMA Region II Update, September 3, 2017, 4:00 p.m. EDT*)

Interagency Coordination/Response:

- **ESF-1: Transportation**
 - Identified 229 Federal Highway Administration (FHWA) engineers to support state inspection efforts upon state request; have conducted over 2,500 bridge inspections to date (*ESF-1 Update, September 4, 2017, 4:40 p.m. EDT*)
- **ESF-2 Communications**
 - Three counties are reporting cell tower outages of greater than 10%: Aransas: 21.1% (+10.6%), Calhoun: 10.7%, and Orange: 18.8% (-4.7%) based upon counties reporting to the Disaster Information Reporting System (DIRS) (*ESF-2 Update, September 4, 2017, 6:30 p.m. EDT*)
- **ESF-3: Public Works and Engineering**
 - United States Army Corps of Engineers (USACE) Local Government Liaisons are serving as the conduit for information exchange on local needs and federal capabilities
 - Critical Public Facilities (CPF): USACE Critical Public Facilities (CPF) management cell traveling to FEMA Region VI, TX Branch 3 on September 5; to conserve resources and maximize effectiveness, USACE recommends this cell be redirected to the Joint Field Office to coordinate, vet, and scope all needs throughout TX.
 - Mission Overview: included under Public Assistance, typically including schools, fire stations, police stations to include EMS and 911 call centers, and requires close coordination with State and Local governments, FEMA, and Other Federal Agencies (*ESF-3 Update, September 5, 2017, 12:44 a.m. EDT*)
 - Controlled releases continue at the Addicks and Barker reservoirs
 - Addicks current elevation - 105.8 feet (-0.5) (flooding occurs 103 feet)
 - Barker current elevation - 98.2 feet (-0.4) (flooding occurs 95 feet) (*ESF-3 Update, September 4, 2017, 7:32 p.m. EDT*)

- **ESF-4: Firefighting**
 - Seven Incident Management Teams (IMTs) assigned to Hurricane Harvey
 - Four IMTs, supported by six crews, are assigned to manage Resource Staging Areas (RSAs) in Katy, Beaumont, Beeville, and Lufkin, TX
 - Three IMTs working to support emergency operational planning at the community and county level in Beaumont (2) and Jasper (1) *(ESF-4 Update, September 4, 2017, 10:00 p.m. EDT)*
- **ESF-6: Mass Care**
 - Sheltering: Requested 100 Individual Assistance Technical Assistance Contract (TAC) personnel to be pre-staged for deployment to support shelter operations
 - Louisiana Department of Agriculture and Forestry (LDAF) reported pet shelters operational in two locations; LDAF will provide transport carriers for pets
 - LDAF to provide transport carriers for the transport of pets with owners by bus and for LDAF Mobile Pet Shelter and NGO's to transport non-bus pets to Mesquite, TX
 - Voluntary Organizations:
 - Working with National Voluntary Organization Active in Disaster (VOAD) staff on the number of volunteers/staff requiring lodging in the impacted area
 - Working to obtain State approval for infant and toddler supplies to support shelter operations from Save the Children
 - Examining potential National VOAD members' ability to conduct housing inspections *(ESF-6 Update, September 5, 2017, 1:12 a.m. EDT)*
- **ESF-7: Logistics Management and Resource Support**
 - USS Lexington is open and will lodge 87 FEMA Corps members arriving in Corpus Christi, TX, September 5 *(ESF-7 Update, September 5, 2017, 1:34 p.m. EDT)*
 - Sent commodities forward to Seguin and Randolph Incident Support Bases (ISBs) and onward to 12 state staging areas to support 21 Points of Distribution (PODs)
 - Providing commodity support to Beaumont and Houston
 - Anticipate Cabaniss Field responder support camp will be operational within 24 hours
 - USS Lexington is open and lodging FEMA Corps members
 - 13 of 330 GSA owned and leased buildings in the affected area closed *(ESF-7 Update, September 4, 2017, 3:39 p.m. EDT)*

Commodities Staged in TX

Product	Number Ordered	Arrived - ISB/FSA	En route to State	Released to State
Generators	201	198	0	0
Meals	27,386,120 (+459,000)	11,887,855 (+1,992,583)	3,886,426 (+1,807,924)	6,100,849 (+879,892)
Sheeting	8,000	8,064	0	0
Tarps	24,188	22,426	1,560	0
Water (Liters)	42,464,606	17,817,158 (+3,198,183)	7,563,339 (+1,278,997)	4,628,630 (+95,760)
Blankets	128,002	128,937	0	13,995
Cots	84,861	55,349	3,864	13,472
Fuel	600,000	123,480	4,000	0
Infants/Toddler Kits	483 (+49)	339 (+15)	40	20
Durable Medical Equipment (reusable)	39 (-2)	13 (+2)	3	1
Consumable Medical Supplies (one-time use)	33 (-2)	5 (+2)	2	1

(ESF-7 Update, September 5, 2017, 3:00 a.m. EDT)

Commodities Staged in LA

Product	Number Ordered	Arrived - ISB/FSA	En route to State	Released to State
Generators	29	29	0	0
Meals	1,419,000	1,475,076	0	416,124
Tarps	22,000	19,088	0	0
Water (Liters)	2,000,000	2,029,706	0	414,069
Blankets	4,500	5,202	0	0
Cots	2,100	2,160	0	0
Infants/Toddler Kits	10	20	0	0
Durable Medical Equipment (reusable)	1	1	0	0
Consumable Medical Supplies (one-time use)	1	1	0	0

(ESF-7 Update, September 5, 2017, 3:00 a.m. EDT)

• **ESF-8: Public Health and Medical Services**

- Hospitals: 4 hospitals improved their status from closed to sheltering in place:
 - 8 hospitals (4.8% of total) remain closed: 4 (3.6%) in Houston, 1 (4.3%) in Beaumont/Port Arthur, 1 (9%) in Victoria, 2 (11%) in Corpus Christi;
 - 8 hospitals (4.8%) are on internal disaster status and sheltering in place status (2 in Houston, 4 in Beaumont, 1 in Victoria and 1 in Corpus Christi) (ESF-8 Update, September 4, 2017, 10:03 p.m. EDT)
- Dialysis Centers: Of the 102 dialysis centers that closed on August 28, 2017, 83 facilities (81% of total) are open while 19 (19%) remain closed
- Nursing Homes: 51 remain closed
- 35 intermediate care/facilities for individuals with intellectual disabilities remain closed (ESF-8 Update, September 4, 2017, 10:01 p.m. EDT)
- Vector control crews in Corpus Christi continue to spray daily from 7:30 p.m. to midnight (ESF-8 update, September 4, 2017, 11:57 p.m. EDT)
- TX Department of State Health Services received TDAP (tetanus, diphtheria, and pertussis) and influenza vaccines for first responders and those impacted by Harvey; distribution will begin September 5 (ESF-8 Update, September 4, 2017, 10:03 p.m. EDT)

• **ESF-9: Search and Rescue (SAR)**

- The following demobilized: four Type 1 US&R Teams, five Type 3 US&R Teams, nine Swift Water Teams and three Hazardous Material Push Packages (ESF-9 update, September 5, 2017, 2:17 a.m. EDT)
- Total individuals rescued by Federal responders estimated at over 36,202 individuals and 2,707 pets
- One FEMA Urban Search and Rescue (US&R) Task Force remains engaged in various activities including search of previously unsearched areas, evacuation and animal rescue (ESF-9 update, September 4, 2017, 1:47 p.m. EDT)

• **ESF-10: Oil and Hazardous Materials Response**

- Acting EPA Regional Administrator and advisors met with the Houston Mayor and other state and local officials on September 4 (ESF-10 Update, September 4, 2017, 11:28 p.m. EDT)
- EPA maintaining a rotational 24 hour presence and air monitoring capabilities at the Arkema Chemical Plant in Harris County, TX (ESF-10 Update, September 4, 2017, 10:37 p.m. EDT)
- EPA conducted initial assessments of all 41 Superfund sites in impacted area: 28 have no damage, and 13 were flooded or potentially have other damage from the storm
 - Teams in Houston assessing the sites and have completed on-the-ground inspections of five of the 13 sites; seven of the remaining sites will be inspected September 5 (ESF-10 Update, September 4, 2017, 10:37 p.m. EDT)
- National Response Center has received 208 (+17) oil/hazmat incident reports related to Harvey, including a 1,000 barrel (42,000 gallon) discharge of a “gasoline type product” from an unknown source at a facility tank farm
 - The facility was evacuated, boomed off, and foam applied with no injuries reported following discovery of the release on August 31, but on September 3 the NRC was notified that this spill has

reached the Houston Ship Channel via drainage ditch and is causing a 10 by 50 foot sheen; an Oil Spill Removal Organization has boomed the sheen and conducting recovery operations *(ESF-10 Update, September 4, 2017, 10:10 a.m. EDT)*

- **ESF-11: Agriculture and Natural Resources**

- Agricultural assessments completed in 17 of the 32 identified counties *(ESF-11 Update, September 4, 2017, 10:35 pm. EDT)*

- **ESF-12: Energy**

- Colonial Pipeline restarting Lines 2 and 4; pipelines will be operational by September 7 after restart *(ESF-12 SitRep #22, September 4, 2017, 1:30 p.m. EDT)*

- **ESF-13: Public Safety and Security**

- Providing site security and force protection for public health and medical support, as well as search and rescue *(ESF-13 Update, September 4, 2017, 9:38 a.m. EDT)*

- **ESF-15: External Affairs**

- Coordinating with JFO on Harvey recovery messaging
- Texas Travel Association continues to encourage its members to join the Transitional Shelter Assistance (TSA) program *(ESF-15 update, September 4, 2017, 10:48 p.m. EDT)*

- **U.S. Coast Guard (USCG)**

- USCG will continue phased demobilization of air and shallow water assets for maintenance and crew rest, assess impacts to USCG infrastructure, personnel and assets *(USCG Update, September 5, 2017, 2:15 a.m. EDT)*

- **U.S. Department of the Interior (DOI)**

- USGS is coordinating an Interagency Agreement for inundation mapping in TX to be completed the week of September 4 *(DOI Update, September 5, 2017 12:59 a.m. EDT)*

- **U.S. Department of Defense (DoD)**

- U.S. Northern Command (USNORTHCOM)
 - DoD assets now focused on commodity distribution, as assets are moving away from search and rescue and evacuation missions; as TX search and rescue drawdown plan is finalized, these assets will be ready to re-posture mid-week *(DoD Update, September 5, 2017 1:18 a.m. EDT)*

Federal Force Laydown Map

(As of September 5, 2017
5:00 a.m. EDT)



OTHER SUPPORT / SERVICES

(Not shown on map)

FEMA: 2,594 Responders on the ground.
Nat'l EMS Contract Support: 200 ground ambulances, 25 RW, 29 FW aircraft. Surge Capacity Force (242 Denton PMC, 361 Anniston)
ESF-13: 1,928 In theater
TSA: 402 Surge Capacity Force personnel;
DOD: FW air: C-5, C-17, C-130. RW air: SAR, Heavy Lift, Medium Lift and Medivac assets. High Water Vehicles. AAV, 1,63 (Title 10) personnel, 1636 DoD mission partners.
USACE: 247
USCG: 1,051 (including local), 87 National Strike Force, 7 Offshore Cutters (5 underway)
DOT MARAD: 2 ships headed to Texas by 9/13/17
DNDO: Mobile Radiation Portal Monitors.
GSA: 2 Teams - leasing space and facilities support
FAA: FRA activated Emergency Relief Docket
Mobile Command Vehicles: 2 ATF, 2 DEA, 2 BOP, 3 ICE, 2 FBI, 2 USMS
USACE, NOAA, USCG: Aids to Navigation (assets pre-staged)
USDA: APHIS; FNS; FSIS
CBP: 13 RW, 8 FW aircraft, 51 boats, 739 personnel
National Guard: 90 aircraft, 18,747 personnel
USGS: 4 High Water Mark Surveys, 11
DOI: 90 boats, 34 UAS on standby

DENTON (Region VI HQ)

FEMA: Personnel 388
 Mobilization Center (141 staff, 327 responders), RRCC (FEMA and ESF personnel), NPSC, FEMA Corps 20, MERS Detachment (49 MERS staff)
EPA: 2 Personnel
DOA: 2 APHIS personnel
DOT: 6 Personnel
DOE: 2 personnel

COLLEGE STATION (US&R AND ISB)

FEMA: FSARCG, US&R IST, US&R HEPP, MERS Assets, 34 staff
USDA: 4 ESF-4 IMTs
DOI: 6 pilots, 8 boats, and 18 personnel

AUSTIN (TX State EOC, IOF)

FEMA: 1077 (Responders, National IMAT West, 3 Regional IMATs, FEMA Corps), MERS Assets, 3 MCOV
HHS: Full IRCT
CAP: 26 aircraft, 170 personnel
EPA: 12 Personnel and 2 contractor
DOT: 3 personnel
DOA: 4 APHIS personnel, 1 FNS personnel
GSA: 35 staff
NPPD: CS&C 3 Personnel
FCC: 2 Personnel
NTIA: 1 personnel
DOE: 2 personnel
DOS: 2

DALLAS / FORT WORTH

FEMA: Distribution Center, 12 MCOVs (+1 inbound), 37 (staff, FEMA Corps)
TSA: 35 NDOs arrived at Houston Hobby (HOU on 9/2/17), 5 K9 teams
HHS: 1 MHT, 1 Pharm Strike Team,
EPA: 51 EPA Personnel
GSA: 10 staff

BEAUMONT/PORT ARTHUR

FEMA: 23 Responders
CBP: 7 helicopters; 3 fixed wing aircraft
USCG: 1 shallow boat team (3 boats), Coast Guard Marine Safety Unit Port Arthur
HHS: 1 DMAT

CAMP BEAUREGARD

FEMA: 20 Responders

BATON ROUGE (LA STATE EOC)

FEMA: 1 MERS Assets, 38 FEMA (staff, R-VI IMAT)

NEW ORLEANS

USCG: 3 helicopters, 6 cutters (1 underway/5 moored)

KATY

FEMA: 18 Responders, US&R base of operations with Blue IST, federal search & rescue coordination group, 6 Type 1 TFs, 8 Type 3 TFs, 13 water rescue teams, 7 HEPP

VICTORIA

FEMA: MERS Assets

BEEVILLE

FEMA: 6 MCOV

CORPUS CHRISTI AREA

FEMA: 2 MCOV, 193 staff
EPA: 27 personnel
USCG: 1 helicopter, 2 planes, 2 cutters (moored)
NOAA: SSC

HOUSTON/GALVESTON

FEMA: MERS Assets, 10 US&R w/ HEPP, 582 (staff, R-VII IMAT, N-IMAT East 1, and FEMA Corps), 4 US&R TFs (Galveston)
ESF-13: Law Enforcement Responder Camp 180 personnel
TSA: 25 NDOs, 5 canine teams, 2 TSST teams, 6 VIPR Teams (42)
HHS: 1 DMAT, 2 FMS, 1 RDF, 3 MHT, Staging Area 3 DMAT
USCG: 5 helicopters and 1 shallow water boat team (3 boats), 5 Cutters (2 underway/3 moored)
NOAA: SSC
EPA: 41 personnel
DOS: 3

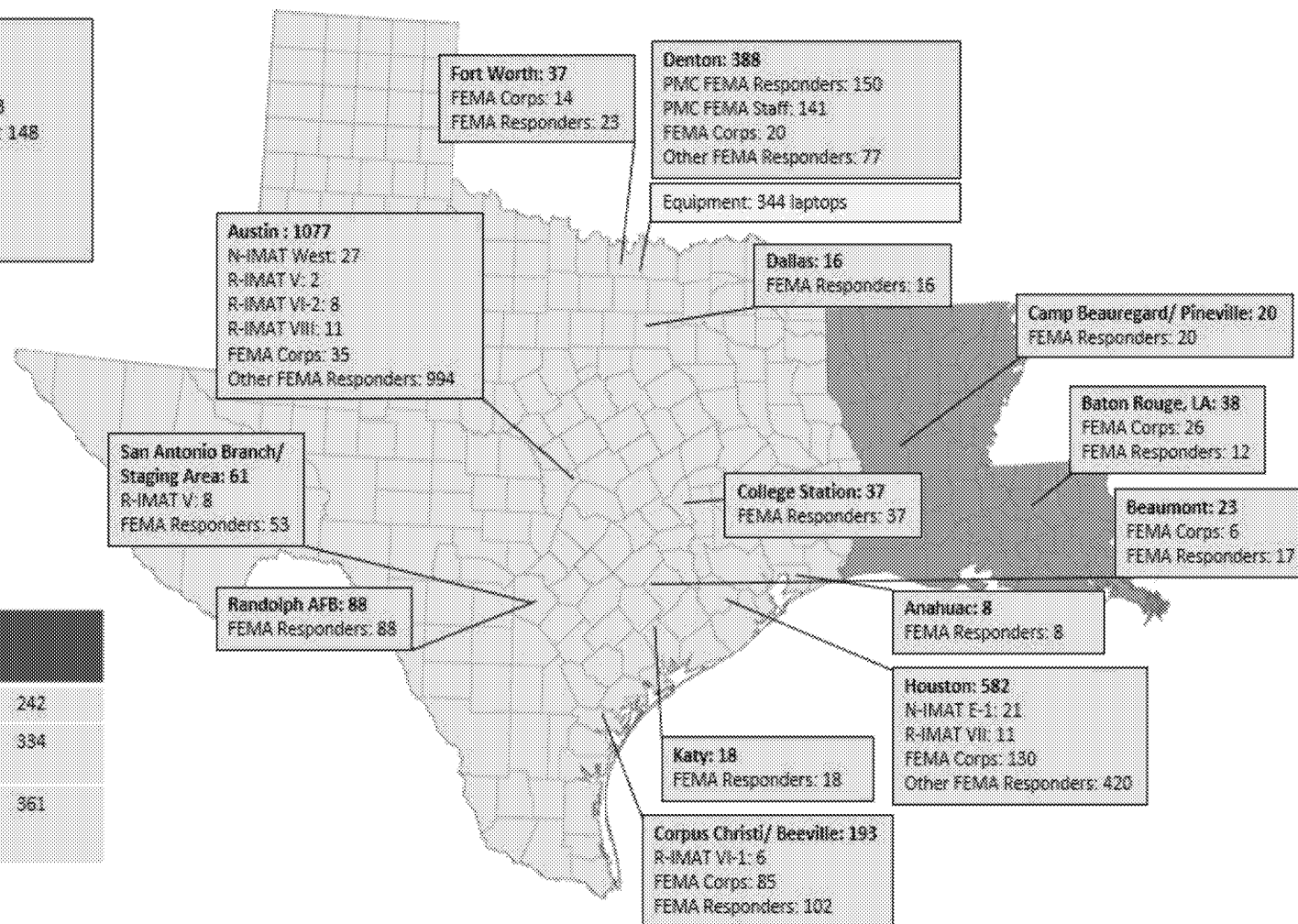
SAN ANTONIO (Branch, Staging Area)

FEMA: 61 (R-V IMAT, FEMA staff), 2 US&R w/ HEPP (5) and MRP (13)
DOD: FSA at Kelly AFB
HHS: 0
CAP: 150 personnel (Incident Command Post)
ESF-13: Field Support Team 22 personnel
RANDOLPH AFB / SEGUIN, TX
FEMA: ISB, MERS Assets, 2 MCOVs 88 FEMA staff)
DLA: Expeditionary Distribution to manage/ship trailers (Seguin ISB)

Hurricane Harvey – FEMA Responder Laydown (As of Sept. 5, 2017 12:01 a.m. EDT)

Total FEMA Supporting Harvey:

Responders on the Ground: 2594
 Other FEMA Staff Supporting : 1993
 CDP supporting SCF mobilization: 148
 Other Distribution Centers: 31
 RRCC Staff: 114
 NRCC Staff: 413
 NPSC Staff: 1287



Surge Capacity Force	
Denton/Dallas	242
Carson City, NV – SCF (Wave 2)	334
Anniston, AL – SCF (Wave 3)	361

Senior Leadership Briefing
Hurricane Irma
Tuesday, September 5, 2017 (5:00 a.m. EDT)
Updates in Blue

Impact Summary:

- Hurricane Irma Crisis Action Planning (CAP) Team planning for Irma's potential OCONUS and CONUS impact; CAP Team includes representatives from Regions II, III, and IV, as well as ESFs, Logistics, interagency partners, and DoD components *(Hurricane Irma Concept of Support, September 3, 2017 10:00 a.m. EDT)*
- Shelters:
 - PR: 455 shelters with a capacity of 62,155 *(Region II Update from PR Department of Housing – 2017 data email, September 5, 2017, 2:34 a.m. EDT)*
 - USVI: 32 shelters with a capacity of 4,306 *(Region II Update from American Red Cross – 2017 data email, September 5, 2017, 2:34 a.m. EDT)*
- **Critical Infrastructure:**
 - Airports: Air Traffic Control System Command Center, airlines, and operators preliminary plans include:
 - Luis Munoz Marin Airport - San Juan, PR: reduction in services on September 6, no operations on September 7, returning to normal operations September 8
 - Henry E Rohlsen Airport - St. Croix: closure decision to be determined
 - Cyril E King Airport - St. Thomas: no decision yet on closure *(Federal Aviation Administration Spotrep, September 5, 2017, 1:15 a.m. EDT)*
 - Patient Movement: Federal Health Coordinating Official spoke with the Commissioner of Health for the USVI and there are no plans for pre-storm patient movement *(ESF-8 Update, September 3, 2017 11:28 p.m. EDT)*
 - Ports: All federal ports in USVI and PR are open, but all vessels without an approved application to remain in port must depart for storm avoidance and all regulated facilities must submit a Facilities Readiness Survey to the Captain of the Port *(USCG, Update, September 4, 2017, 12:00 p.m. EDT)*

Declaration Activity:

- Region II surge in place
- FCO William L. Vogel deployed to St. Thomas, USVI *(Region II Surge Field Operating Report, September 3, 2017, 2:00 p.m. EDT)*

Federal Force Laydown:

Department / Agency	Personnel		Department / Agency	Personnel	
	Deployed	Available		Deployed	Available
FEMA – Deployed	208	1,678 ¹	Dept of Agriculture – USFA, other USDA	0	0
FEMA – Other Support	-	-	Dept of Commerce – NOAA	4	-
FEMA – Urban Search & Rescue	81	-	Dept of Health and Human Services	67	-
DHS – CBP	-	721	Dept of Energy	6	0
DHS – TSA	-	1,724	Dept of Housing and Urban Development	-	-
DHS – USCG	0	607	Dept of the Interior – NPS, USGS	6	208
DHS – NPPD	0	625	Dept of Justice – ATF, FBI, DEA ²	0	-
DOD – Title 10	4	-	Department of State	0	-
DOD – National Guard Bureau	0	7,127	Department of Transportation	-	-
Civil Air Patrol	-	-	Environmental Protection Agency	1	-
US Army Corps of Engineers	22	-	Small Business Administration	-	-
			General Services Administration	-	-
Total				399	27,793

¹Available for 30-day deployment ²Represents ESF-13 personnel and may have overlap with other Law Enforcement Agencies in table.
(RSS Update, September 5, 2017, 5:00 a.m. EDT)

FEMA Headquarters:

- Type 4 planning and response team (PRT) ordered from USACE; concept of support for PR/USVI or CONUS strike developed and in place
- **Federal Insurance and Mitigation Administration**
 - Flood insurance in the projected path of Hurricane Irma:
 - PR has 4,713 Contracts in Force (CIF), 6,079 Policies in Force (PIF);
 - USVI has 1,026 CIF, 1,418 PIF *(FIMA Update, September 3, 2017, 12:34 a.m. EDT)*

FEMA Region II:

- FEMA Region II IMAT locations:
 - IMAT-A: St. Croix, USVI with ESF-12
 - IMAT-B: 1/3 force in USVI St. Thomas with MERS and ESF-12; 2/3 force in PR ready to deploy to USVI as needed
 - IMAT-C: PR *(FEMA Region II Hurricane Impact Preparation Email, September 4, 2017, 10:11 p.m. EDT)*
 - Region X IMAT: deployed to PR *(FEMA Region II Email, September 4, 2017, 11:50 p.m. EDT)*
- FEMA Disaster Medical Assistance Team (DMAT) arrived in PR; two additional DMATs on alert in PA and MA *(FEMA Region II Hurricane Impact Preparation Email, September 4, 2017, 10:11 p.m. EDT)*
- 9 Debris Team Lead personnel in St. Croix, USVI; one Power Advanced Liaisons (ADVONs) team in PR (with 10 personnel) *(FEMA Region II Email, September 4, 2017, 12:01 a.m. EDT)*
- US&R task forces/capability available to shift from TX/LA to support; Type III USAR Team VATF2 en route via C-5 and C-17 *(FEMA Region II Hurricane Impact Preparation Email, September 4, 2017, 10:11 p.m. EDT)*
- Staff from the FEMA Caribbean Area Division in PR to provide support to Commonwealth and local officials
- 15 Preliminary Damage Assessment (PDA) teams on standby; six more pre-identified *(FEMA Region II planning call, September 4, 2017, 2:00 a.m. EDT)*
- Region X IMAT deployed to San Juan, PR
- **Puerto Rico:**
 - Governor signed an Executive Order declaring State of Emergency activating PR National Guard for emergency support *(FEMA Region II Leadership Briefing, September 4, 2017, 6:00 p.m. EDT)*
- **U.S. Virgin Islands:**
 - Declared a state of emergency effective at 12:01 a.m. September 5 and the Governor has ordered the USVI National Guard into active military service *(USVI Government House, September 4, 2017, 4:18 p.m. EDT)*
 - Department of Education has canceled school for students in St. John and St. Croix districts for September 5 *(USVI Department of Education, September 4, 2017, 8:56 a.m. EDT)*

FEMA Region IV:

- RRCC not activated, but will transition to Level II (day shift only) as of 7:00 a.m. EDT on September 5; Watch Center remains at Steady State
- Region IV IMAT 1 and 2 on standby *(FEMA Region IV Update, September 4, 2017, 9:25 p.m. EDT)*
- FEMA Logistics moving 800 trucks into the greater Atlanta area; ordered 100,000 gallons of fuel from Defense Logistics Agency
- ISB Team identified
- IA identifying available Disaster Survivor Assistance Team (DSAT); building out DSAT and Disaster Recovery Center (DRC) teams *(FEMA Region IV Watch, September 4, 2017, 9:16 p.m. EDT)*
- Regional Risk Analysis/Hurricane Liaison Team deployed to the National Hurricane Center on September 4 *(FEMA Region IV Brief, September 4, 2017, 2:11 p.m. EDT)*
- **Florida:** EOC activated to Level II (Partial Activation) as of 11:15 a.m. EDT on September 4; will transition to Level 1 on September 5 at 7:00 a.m. EDT *(FEMA Region IV Update, September 4, 2017, 9:25 p.m. EDT)*

- N-IMAT expecting to deploy to FL
- Florida requested a FEMA Region IV LNO
- **Georgia:** EOC will activate September 5 (*FEMA Region IV Watch, September 4, 2017, 9:16 p.m. EDT*)
- **North Carolina:** FEMA-4285-DR-NC (Hurricane Matthew) staff monitoring for potential operational and safety concerns (*FEMA Region IV Watch, September 4, 2017, 9:16 p.m. EDT*)

Interagency Coordination/Response:

- **ESF-1: Transportation**
 - Working with The United States Maritime Administration (MARAD) to fulfill Mission Assignments for responder lodging (*ESF-1 Update, September 5, 2017, 1:00 a.m. EDT*)
- **ESF-2: Communications**
 - Maynard Mobile Emergency Response Support (MERS) has two personnel assigned to PR, one to St. Thomas and one to St. Croix
 - Outreach to Puerto Rico Emergency Management Agency, Virgin Islands Territorial Emergency Management Agency, and communications representatives to test Government Emergency Telecommunications Service/Wireless Priority Service (GETS/WPS) capabilities prior to impacts from the storm (*RII Update, September 4, 2017, 12:23 p.m. EDT*)
 - PR has one Primary Public Safety Answering Point (PSAP) located in the impact region; there are no secondary PSAPs; loss of the primary PSAP will disrupt the dispatch center's ability to answer 911 calls for emergency assistance (*ESF-4 September 5, 2017, 1:00 a.m. EDT*)
- **ESF-3: Public Works and Engineering**
 - Two United States Army Corps of Engineers (USACE) Emergency Power Planning and Response Teams (11-12 members per team) deployed to USVI and PR on September 4 (*ESF-3 Update, September 4, 2017, 12:01 p.m. EDT*)
- **ESF-6: Mass Care, Emergency Assistance, Housing, and Human Services**
 - Monroe County (Florida Keys) emergency management officials will discuss sheltering and evacuation on September 5; Monroe County to activate Emergency Management Operation Center at 12:00 p.m. EDT September 5
 - Monroe County, FL may issue a mandatory tourist evacuation for the morning of September 6 and a resident evacuation for the morning of September 7, pending the anticipated storm track
 - If there is a mandatory evacuation for residents, sheltering will be available in Miami and not in Monroe County (*Monroe County Emergency Management, September 4, 2017, 6:30 p.m. EDT*)
- **ESF-7: Logistics Management and Resource Support**
 - Establishing Incident Support Base at Maxwell Air Force Base, AL to stage commodities
 - Initiated shipment of 2.9 million liters of water and 1.3 million meals from the FEMA distribution center to the ISB
 - Coordinating with Federal partners and our FEMA contract vendors to evaluate commodity capacity support (*ESF-7 Update, September 5, 2017, 1:21 p.m. EDT*)
 - Standing up maritime hubs at Fort Dix, NJ (Crowley Hubs)
 - Pre-positioning teams across the east coast in preparation for Irma (*ESF-7 Update, September 4, 2017, 2:21 p.m. EDT*)
- **ESF-8: Public Health and Medical Services**
 - Incident Response Coordination Team arrived in San Juan, PR on September 4 (*ESF-8 Update, September 5, 2017, 1:07 a.m. EDT*)
 - HHS Emergency Management Group activated to Level II (Partial Activation); forward deploying one Incident Response Coordination Team-Forward (IRCT-F) and one Disaster Medical Assistance Teams (DMAT) to San Juan, PR (*ESF-8 Update, September 4, 2017, 1:02 a.m. EDT*)
- **ESF-9: Search and Rescue**
 - U.S. Coast Guard (USCG) planning evacuation of dependents from St. Croix and St. Thomas, USVI and re-positioning assets rapid response after impact (*USCG Update, September 4, 2017, 1:46 p.m. EDT*)

- FEMA Urban Search and Rescue (US&R) deployed the Red Incident Support Team (IST) and a Type 3 US&R team in support of Hurricane Irma; an advance team and the Type 3 team will report to PR and the remainder of the IST will stage at Herndon (*ESF-9 update, September 4, 2017, 1:47 p.m. EDT*)
- **ESF-10: Oil and Hazardous Materials Response**
 - Environmental Protection Agency (EPA) monitoring the potential impacts of Irma in the USVI and PR and preparing to respond to impacted locations; developing:
 - Complete list of Superfund and Oil Pollution Act remediation and removal sites to prioritize post-hurricane site assessments
 - List of regulated facilities in order to conduct pre- and post-storm facility coordination and assessment (*ESF-10 Update, September 5, 2017, 12:38 a.m. EDT*)
- **ESF-11 Agriculture and Natural Resources**
 - Food Nutrition Service (FNS) preparing to fulfill requests Commonly Used Shelter Items (CUSH) list 96 hours after the Declaration for PR or USVI (*ESF-11 update, September 4, 2017, 11:05 p.m.*)
 - Heritage Emergency National Task Force sent preparedness messaging to the USVI Division of Libraries, Archives and Museums for widespread distribution on how cultural institutions and government agencies should prepare their staff, facility, and collections in advance of the Hurricane Irma (*ESF-11 Update, September 4, 2017, 11:05 p.m. EDT*)
- **ESF-12: Energy**
 - Developing report on fuel stocks USVI and PR (*ESF-12 Update, September 5, 2017, 9:32 p.m. EDT*)
- **ESF-13: Public Safety and Security**
 - Four personnel standing by to deploy to FEMA Regions II and IV
 - Eight Quick Reaction Teams (QRTs) comprising 200 Federal Law Enforcement Officers (FLEOs) are on ready reserve to respond to Irma
 - One Incident Management Team (IMT) on standby and available to support Irma response efforts (*ESF-13 Update, September 4, 2017, 11:47 p.m. EDT*)
- **ESF-15: External Affairs**
 - Individual conference calls with the FEMA Administrator and Governors of PR, USVI, and FL September 5 (*ESF-15 update, September 4, 2017, 9:56 p.m. EDT*)
 - Social Media: Steady volume of social media conversations shifting from Harvey to Irma (*ESF-15 update, September 4, 2017, 9:43 p.m. EDT*)
- **U.S. Coast Guard**
 - Four cutters underway to the area of Aruba, Bonaire, and Curacao; other cutters on patrol in the area working to avoid the path of Irma
 - Miami-based Incident Management Team activated September 4 at 9:00 a.m. EDT; team is responsible for coordinating operations in the Caribbean and southeast United States
 - Deployed two USCG Liaison Officers to Region II and one to St. Croix to support the Defense Coordinating Element
 - Re-positioned two fixed wing aircraft in order to evacuate members, dependents, and pets (59 total) from USVI and Great Inagua, Bahamas on September 4 (*USCG Update, September 5, 2017, 2:15 a.m. EDT*)
- **U.S. Department of the Interior (DOI)**
 - USGS coordinating a mission assignment to deploy storm surge sensors in PR ahead of impacts from Hurricane Irma (*DOI Update, September 5, 2017 12:59 a.m. EDT*)
- **U.S. Department of Defense (DoD)**
 - US Northern Command (USNORTHCOM):
 - DoD is preparing to deploy an Amphibious Readiness Group (ARG); awaiting specific movement orders
 - Defense Coordinating Officer and a Joint Enabling Team are coordinating with civil authorities in the USVI and PR
 - FEMA mission assignment for the USS Kearsarge, USS Oak Hill, and 26th Marine Expeditionary Unit has been approved; ships en route to region
 - TRANSCOM's Aerial Port opening capability positioned for Irma response

- Civil Air Patrol (CAP):
 - PR Wing activated, Incident Commander appointed (*DoD update, September 5, 2017, 12:55 a.m. EDT*)
- ***U.S. Department of State***
 - The aggregate sum for Department of State personnel and family members in the Caribbean is 1,945. This include both U.S. territories in the Caribbean (*NRCC International Desk, September 4, 2017, 9:11 a.m.*)

Hurricane Irma Force Laydown Map: (05 September 2017, 0500 EDT)

Not shown on map

DOD: USS KEARSARGE, USS Oak Hill,
Special Purpose MAGTF

R2 BRCC (New York, NY)

FEMA US&R: 2 staff

EPA: 1 staff

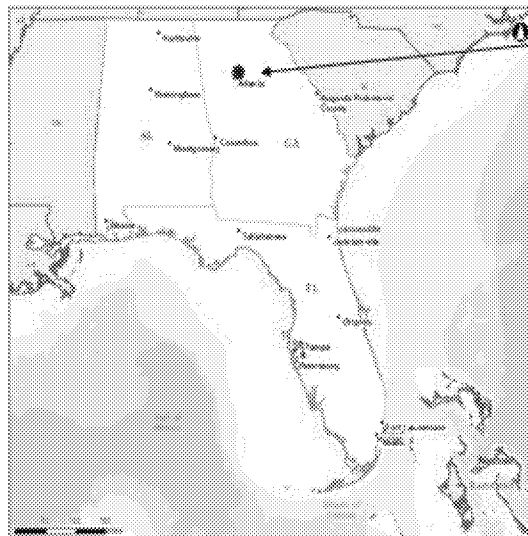
DOE: 2 staff w/in 24 hrs

Herndon, VA

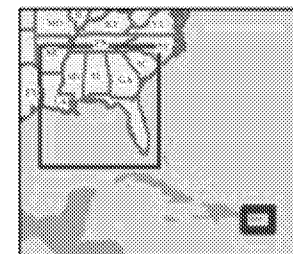
FEMA US&R: 25 staff

Atlanta, GA

FEMA IMAT: E-2 IMAT to arrive 9/6



Region IV RRCC (Atlanta, GA)
DOE: 1 staff



● Region IV RRCC

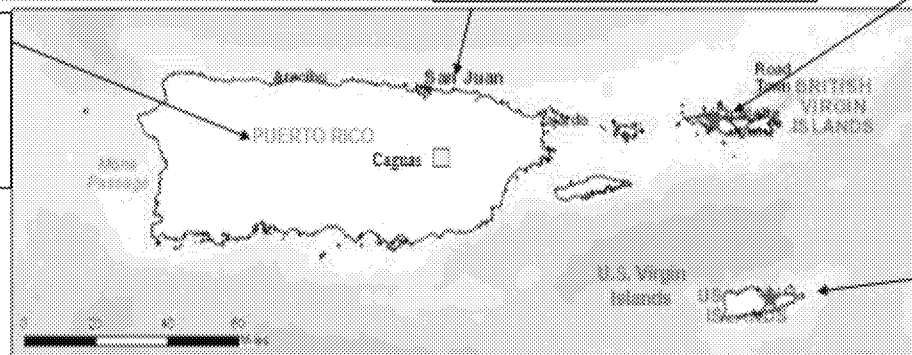
★ Federal Staging Areas

□ Puerto Rico Distribution Center

San Juan

DOD: RV DCO/DCE (15), 2xNEPLO to DCE FWD,
1xNEPLO to State EOC, 2x NAVNORTH LNO to DCO
HHS: IRCT - Forward, MDS, (1-DMAT en route)

Puerto Rico (other locations)
FEMA US&R: 3 staff in Hato Rey, 31 staff in
Santa Catalina
FEMA IMAT: R10 IMAT
FEMA IMAT: R2 IMAT, R10 IMAT
DOE: 1 staff
DOJ: 30 agents to arrive 9/5 to assist ESF-8



St. Thomas
DOE: 1 staff

Virgin Islands
FEMA IMAT: R2 IMAT

St. Croix

DOE: 1 staff

DOD: RGN II DCO/DCE (16),
2xNEPLO to DCE FWD, 2x
NEPLO to DCE FWD,
NAVNORTH LNO to DCO

